

## GILA RIVER BASIN

09498900 GOLD CREEK NEAR PAYSON, AZ

LOCATION.--Lat 34°00'10", long 111°21'30", in SW<sup>1</sup>/<sub>4</sub> sec.29, T.8 N., R.10 E., Gila County, Hydrologic Unit 15060105, at State Highway 87, 16 mi south of Payson.

DRAINAGE AREA.--6.44 mi<sup>2</sup>.

### Annual peak discharges

| Water year | Date     | Annual peak discharge (ft <sup>3</sup> /s) | Discharge codes | Water year | Date     | Annual peak discharge (ft <sup>3</sup> /s) | Discharge codes |
|------------|----------|--|-----------------|------------|----------|--|-----------------|
| 1963       | 08-22-63 | 1,370                                      |                 | 1971       | 08-19-71 | 125  |                 |
| 1964       | 07-15-64 | 163  |                 | 1972       | 06-22-72 | 160  |                 |
| 1965       | 01-07-65 | 215  |                 | 1973       | 10-06-72 | 515  |                 |
| 1966       | 12-22-65 | 500  |                 | 1974       | 01-08-74 | 50   | ES              |
| 1967       | 08-05-67 | 510  |                 | 1975       | 10-29-74 | 12   |                 |
| 1968       | 12-19-67 | 620  |                 | 1976       | 02-09-76 | 375  |                 |
| 1969       | 00-00-69 | 15   | LT              | 1979       | 12-18-78 | <sup>1</sup> 1,120                         |                 |
| 1970       | 09-05-70 | 2,800                                      |                 |            |          |  |                 |

<sup>1</sup>Highest since 1970.

Magnitude and probability of instantaneous peak flow based on period of record 1963-76, 1979

| Discharge, in ft <sup>3</sup> /s, for indicated recurrence interval in years, and exceedance probability, in percent |          |           |          |           |            |
|--|----------|-----------|----------|-----------|------------|
| 2<br>50%   | 5<br>20% | 10<br>10% | 25<br>4% | 50†<br>2% | 100†<br>1% |
| 314  | 795      | 1,290     | 2,160    | 3,020     | 4,070      |
| Weighted skew  | (logs) = | -0.01     |          |           |            |
| Mean   | (logs) = | 2.50      |          |           |            |
| Standard dev.  | (logs) = | 0.48      |          |           |            |

† Reliability of values in column is uncertain, and potential errors are large.

### Basin characteristics

| Main channel slope (ft/mi) | Stream length (mi) | Mean basin elevation (ft) | Forested area (percent) | Soil index | Mean annual precipitation (in) | Rainfall intensity, 24-hour |              |
|----------------------------|--------------------|---------------------------|-------------------------|------------|--------------------------------|-----------------------------|--------------|
|                            |                    |                           |                         |            |                                | 2-year (in)                 | 50-year (in) |
| 295                        | 4.4                | 4,590                     | 6.5                     | 3.0        | 21.0                           | 2.9                         | 5.5          |

# GILA RIVER BASIN

09498900 GOLD CREEK NEAR PAYSON, AZ--Continued

